

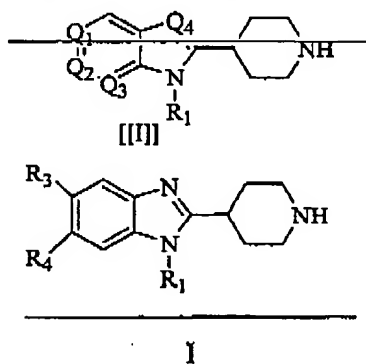
Attorney Docket No: ISIC0055-100 (IBIS-28US)
Serial No. 10/071, 978

December 19, 2005 Response
to August 18, 2005 Action

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1.(Currently amended) A compound having the formula I:



wherein:

Q₁ is CR₃;

Q₂ is CR₄;

Q₃ is CH₃;

Q₄ is N;

_____ R₁ is alkyl, aryl, arylalkyl, heteroaryl; heteroarylalkyl, heterocycloalkyl, arylsulfonyl, aryloxy carbonyl, alkoxyalkoxyalkyl, alkyl-S-R₇, alkyl-NH-C(=O)-R₈ or -R₉-X-R₁₀-(R₁₁)H;

_____ wherein each of the alkyl, aryl, arylalkyl heteroaryl, heteroarylalkyl, heterocycloalkyl, arylsulfonyl, aryloxy carbonyl and alkoxyalkoxyalkyl moieties in each of the foregoing R₁ groups can be optionally substituted with up to 5 groups independently selected from the group consisting of C₁-C₆ alkyl, OH, hydroxyalkyl, -C(=O)-R₅[[:]], CN, aryl, alkoxy carbonyl, alkylaryl, arylalkyl, heteroaryl, S-heteroaryl optionally substituted with halogen, heteroarylalkyl optionally substituted with halogen, heterocycloalkyl optionally substituted with amino, NO₂, halogen, monohaloalkyl, dihaloalkyl, trihaloalkyl, perhaloaryl, perhaloalkylaryl, alkyl-NR₁₅R₁₆ and NR₁₅R₁₆;

or one of said alkyl, aryl, arylalkyl heteroaryl, heteroarylalkyl, heterocycloalkyl, arylsulfonyl, aryloxy carbonyl or alkoxyalkoxyalkyl moieties of one of said R₁ groups can be attached to a ~~structure~~ compound of Formula I at position R₁ thereof;

R₃ and R₄ are independently each halogen, C₁-C₆ alkyl, trihaloalkyl, alkoxy carbonyl, alkoxy, NR₁₅R₁₆, [[and]] or NO₂, wherein said C₁-C₆ alkyl, alkoxy carbonyl, and

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alkoxy groups can each be optionally substituted with $\text{NR}_{15}\text{R}_{16}$;

R_5 is H, $-\text{NHNHR}_6$, $-\text{NHN}=\text{CH}-\text{R}_6$, heteroaryl[$[\cdot]$] or heterocycloalkyl, wherein said ~~heteroaryl~~ heteroaryl group can be optionally substituted with an aryl or heteroaryl group[$[\cdot]$];

R_6 is aryl, heteroaryl[$[\cdot]$], arylsulfonyl, heteroarylsulfonyl, $-\text{C}(=\text{S})-\text{NH}-\text{aryl}$, $-\text{C}(=\text{S})-\text{NH}-\text{arylcarbonyl}$, $-\text{C}(=\text{S})-\text{NH}-\text{heteroarylcarbonyl}$, $-\text{C}(=\text{S})-\text{NH}-\text{alkylene}-\text{R}_{21}$, $-\text{C}(=\text{O})-\text{NHaryl}$, $-\text{C}(=\text{O})-\text{NH}-\text{arylcarbonyl}$, $-\text{C}(=\text{O})-\text{NH}-\text{heteroarylcarbonyl}[\cdot]$ or $-\text{C}(=\text{O})-\text{NH}-\text{alkylene}-\text{R}_{21}$ where R_{21} is carboxy, alkoxycarbonyl, aryl, heteroaryl, heterocycloalkyl, arylaminocarbonyl, cycloalkylaminocarbonyl[$[\cdot]$] or a saturated hydrocarbon fused ring system optionally having an aryl ring fused thereto, said ring system being optionally substituted with up to three alkyl groups on the alkyl or aryl rings thereof;

wherein any of said R_6 groups can be optionally substituted with up to 3 groups selected from $\text{NR}_{15}\text{R}_{16}$, alkyl, hydroxy, halogen, aryl, alkoxy, trihaloalkoxy, arylalkyloxy, NO_2 , $-\text{SH}$, $-\text{S}-\text{alkyl}$, heteroarylcarbonyl, heteroaryl, alkylheteroaryl[$[\cdot]$] or a moiety of the formula $-\text{OC}_2\text{H}_2-\text{O}-$ attached to adjacent atoms of said R_6 group;

_____ R_7 is heteroaryl or heterocycloalkyl;

_____ R_8 is aryl;

_____ R_9 and R_{10} are each independently alkylene having from 1 to about 20 carbons;

_____ X is $-\text{N}(\text{R}_{12})-$, $-\text{C}(\text{R}_{13})(\text{R}_{14})-$ or O ;

_____ R_{11} is H, ~~heterocycloalkyl~~, heteroaryl or alkoxy, wherein said ~~heterocycloalkyl~~, heteroaryl or alkoxy group can be optionally substituted with up to four groups independently selected from halogen, amino, trihaloalkyl, alkoxycarbonyl, and CN ;

_____ R_{12} is H or C_1-C_6 alkyl; and

R_{13} and R_{14} are each independently H or C_1-C_6 alkyl,

R_{15} is H, halogen, C_{1-12} alkyl, methylcarbonyl, heterocycloalkyl, arylsulfonyl, heteroarylalkyl, aminoalkyl, arylcarbonyl, branched $[\text{and}]$ or straight chain polyaminoalkyl[$[\cdot]$] or a group of the formula $\text{CH}_2(\text{CHOH})_4\text{CH}_2\text{OH}$, wherein said methylcarbonyl, heterocycloalkyl, arylsulfonyl, heteroarylalkyl, aminoalkyl, arylcarbonyl[$[\cdot]$] and branched $[\text{and}]$ or straight chain polyaminoalkyl groups can be substituted by up to 3 OH groups;

_____ R_{16} is H, halogen, or C_1-C_6 alkyl;

or R_{15} and R_{16} together with the nitrogen atom to which they are attached can form a succinimido or phthalimido group or a fused ring derivative thereof, wherein said

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succinimido or phthalimido group or fused ring derivative thereof can be optionally substituted by up to three substituents independently selected from NO₂ and halogen, ~~or a group of Formula I at position R₁ thereof;~~

or R₁₅ and R₁₆ together with the nitrogen atom to which they are attached can form a ~~group radical of a compound~~ of Formula I wherein said radical nitrogen atom is Q₄-R¹ thereof [;].

2.(Canceled)

3.(Previously presented) The compound of claim 1 wherein R₃ and R₄ are each independently halogen, amino, NO₂, CN, C₁₋₆ alkoxy or C₁₋₆ alkyl optionally substituted with up to 3 halogen atoms.

4.(Previously presented) The compound of claim 1 wherein R₃ and R₄ are each independently halogen, amino, or NO₂.

5.(Previously presented) The compound of claim 1 wherein R₃ and R₄ are each independently halogen.

6.(Previously presented) The compound of claim 1 wherein R₃ and R₄ are each chlorine.

7.(Previously presented) The compound of claim 1 wherein R₁ is alkyl substituted with alkoxy carbonyl, alkyl substituted with carboxy, or aralkyl where said aryl portion of said aralkyl is phenyl, pyridinyl, or pyrimidinyl, and where said phenyl, pyridinyl, or pyrimidinyl portion of said arylalkyl group is optionally substituted with up to 5 substituents selected from halogen, monohaloalkyl, dihaloalkyl, trihaloalkyl, NO₂, alkoxy carbonyl, and alkyl.

8.(Previously presented) The compound of claim 6 wherein R₁ is alkyl substituted with alkoxy carbonyl, alkyl substituted with carboxy, or aralkyl where said aryl portion of said aralkyl is phenyl, pyridinyl, or pyrimidinyl, and where said phenyl, pyridinyl, or pyrimidinyl portion of

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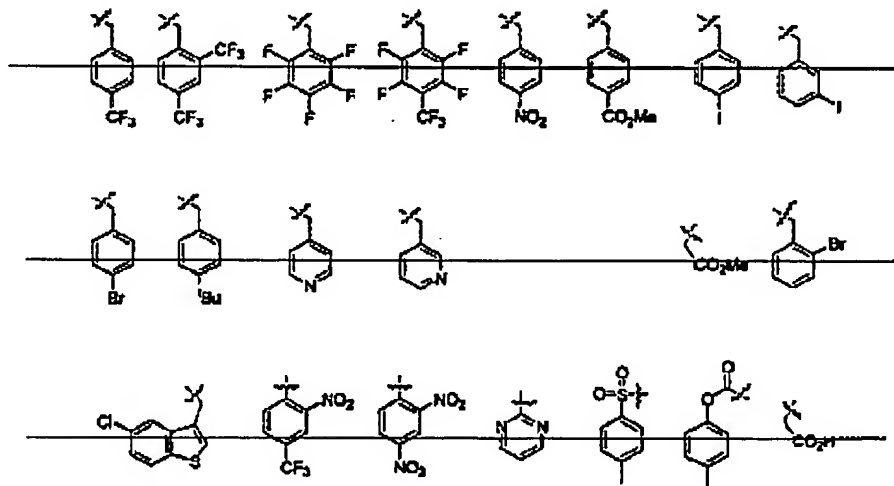
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said arylalkyl group is optionally substituted with up to 5 substituents selected from halogen, monohaloalkyl, dihaloalkyl, trihaloalkyl, NO₂, alkoxycarbonyl, and alkyl.

9.(Original) The compound of claim 7 wherein said phenyl, pyridinyl, or pyrimidinyl portion of said arylalkyl group is optionally substituted with up to 5 substituents selected from CF₃, F, Cl, NO₂, COOCH₃, I, Br, and t-butyl.

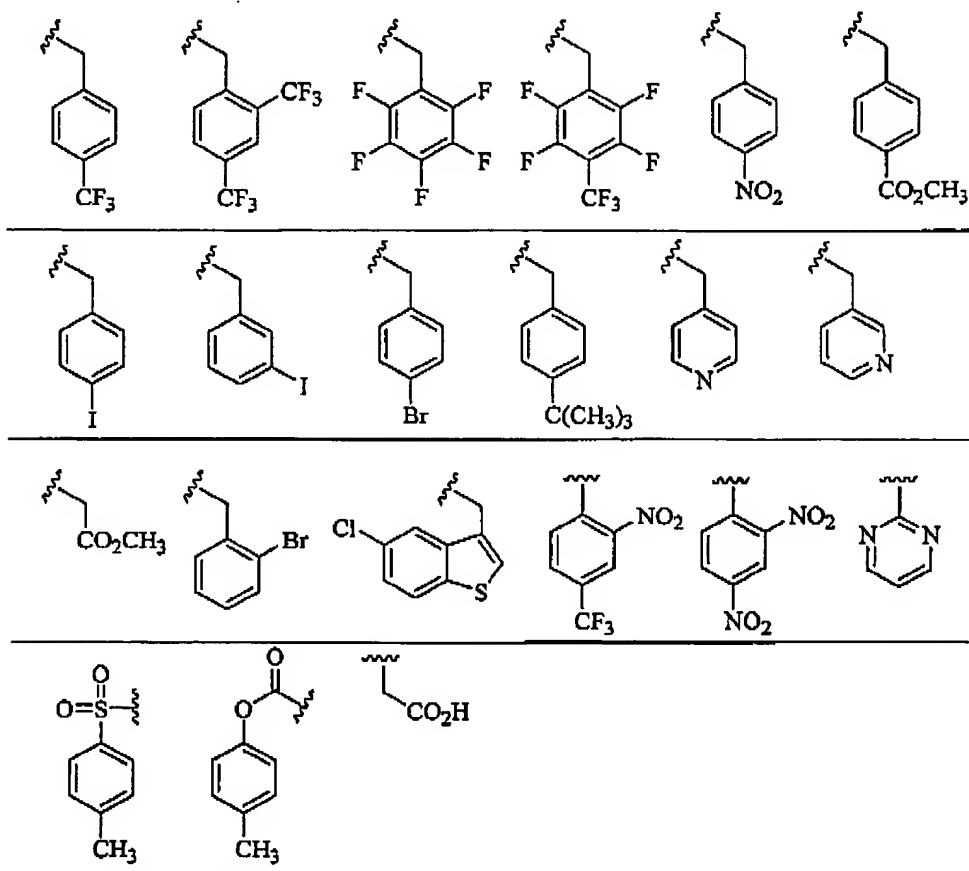
10.(Original) The compound of claim 8 wherein said phenyl, pyridinyl, or pyrimidinyl portion of said arylalkyl group is optionally substituted with up to 5 substituents selected from CF₃, F, Cl, NO₂, COOCH₃, I, Br, and t-butyl.

11.(Currently amended) The compound of claim 1 wherein said R₁ is selected from the radicals consisting of:



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12.(Previously presented) The compound of claim 1 wherein R_1 is alkyl substituted with - $C(=O)-R_5$.

13.(Currently amended) The compound of claim 12 wherein R_5 is $-NHNHR_6$ or $-NHN=CH-R_6$.

14.(Original) The compound of claim 13 wherein R_5 is $-NHNHR_6$.

15.(Original) The compound of claim 13 wherein R_5 is $-NHN=CH-R_6$.

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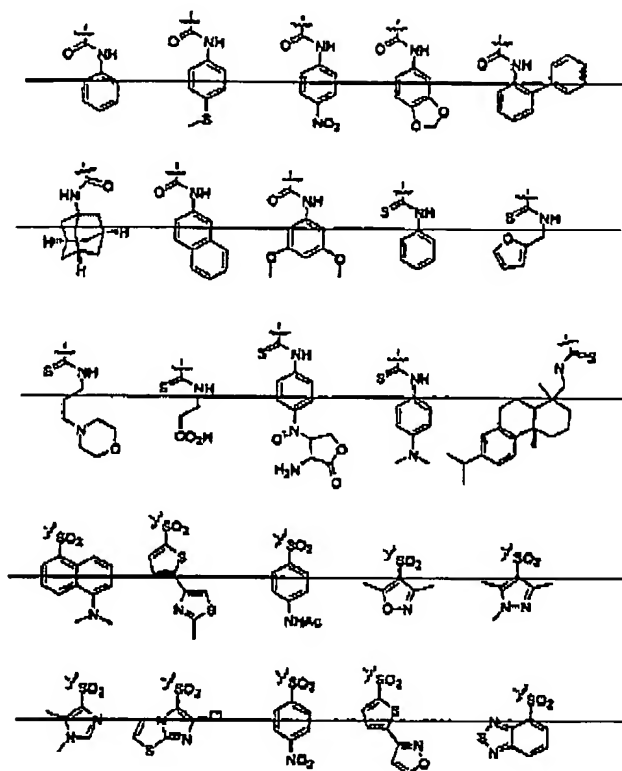
16.(Currently amended) The compound of claim 14 wherein R_6 is $-C(=O)-NH-aryl$, $-C(=O)-NHcycloalkyl$, $-C(=S)-NH-aryl$, arylsulfonyl, heteroarylsulfonyl, heterocycloalkyl, arylaminocarbonyl, cycloalkylaminocarbonyl, $-C(=S)-NH-alkylene-R_{21}$ where R_{21} is heteroaryl or heterocycloalkyl, or a saturated hydrocarbon fused ring system optionally having an aryl ring fused thereto, said ring system being optionally substituted with up to three alkyl groups on the alkyl or aryl rings thereof, wherein any of said R_6 groups can be optionally substituted with up to 3 groups selected from $NR_{15}R_{16}$, NO_2 , a moiety of formula $-OC_2CH_2-O-$ attached to adjacent atoms of said R_6 group, aryl, C_{1-6} alkoxy, carboxy, or C_{1-6} trihaloalkoxy.

17.(Original) The compound of claim 15 wherein R_6 is aryl or heteroaryl optionally substituted with up to 3 groups selected from OH, C_{1-6} alkoxy, NO_2 , C_{1-6} trihaloalkoxy, C_{1-6} trihaloalkyl, aryl, arylalkyloxy, and a moiety of formula $-OC_2CH_2-O-$ attached to adjacent atoms of said R_6 group.

18.(Currently amended) The compound of claim 14 wherein said R_6 is any of the radicals from the group consisting of:

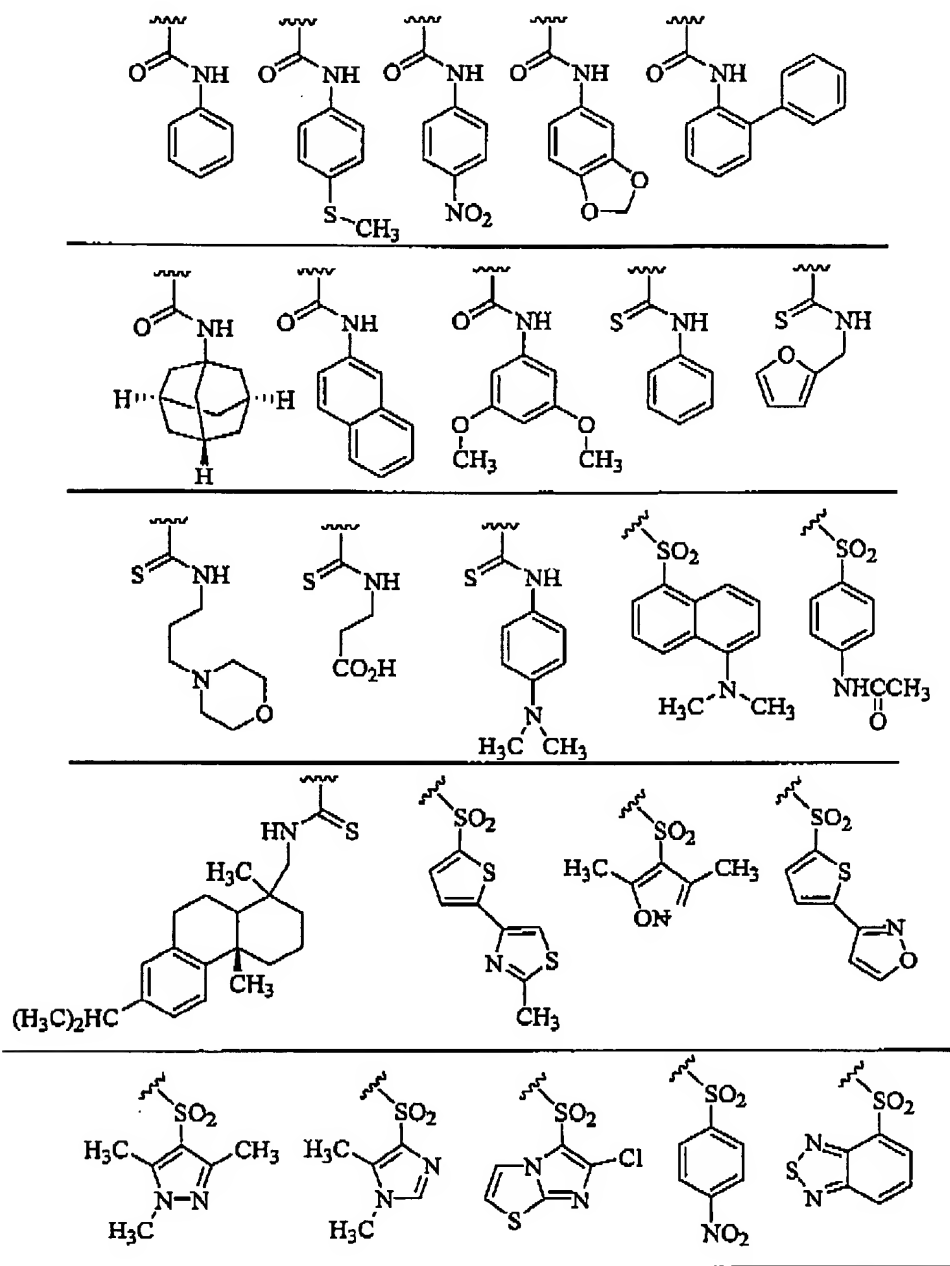
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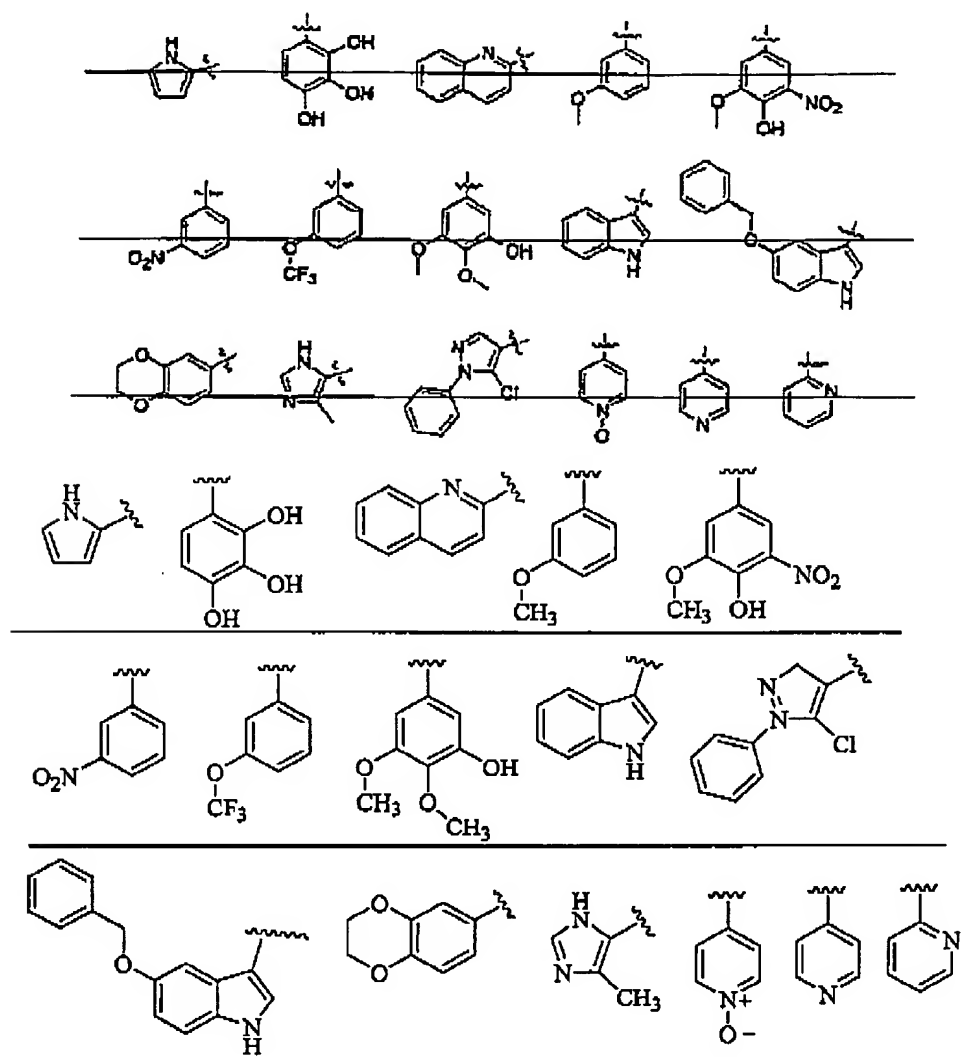
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19.(Currently amended): The compound of claim 15 wherein said R_6 is any of the radicals of the group consisting of:

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20.(Original) The compound of claim 6 wherein R_1 has the formula $-(CH_2)_q-L_4$ where q is 0 to 6 and L_4 is aryl, heteroaryl or heterocycloalkyl, arylsulfonamino, arylcarboxyamino or -S- heteroaryl, where each of said L_4 is optionally substituted with up to three substituents selected from halogen and NO_2 .

21.(Currently amended) The compound of claim 20 wherein said L_4 is N-maleimidyl, N-succinimidyl, N-phthalimidyl, N-naphthalimidyl, N-pyromellitic diimidyl, phenylsulfonamidyl, phenylcarboxamidyl, N-benzopyrrolidinyl, benzimidazol-1-yl, benzimidazol-2-yl, 1,2,4-triazolyl-

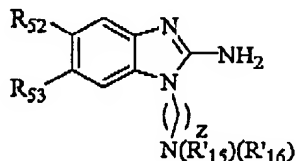
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4-yl, or purinyl, each of said L₄ groups being optionally substituted with 1 or 2 substituents selected from halogen, trihaloalkyl, trihaloalkoxy and NO₂.

22-62.(Canceled)

63.(Currently amended) A compound of formula:



wherein[[;]]:

_____R₅₂ and R₅₃ are each independently selected from H, halogen, C₁-C₆ alkyl, trihaloalkyl, alkoxycarbonyl, alkoxy; [[or]]

_____R'₁₅ and R'₁₆ together with the nitrogen atom to which they are attached can form a succinimido or phthalimido group or a fused ring derivative thereof, wherein said succinimido or phthalimido group or fused ring derivative thereof can be optionally substituted by up to three substituents independently selected from NO₂ and halogen; and

z is 1 to 6.

64.(Canceled)

65.(Previously presented) The compound of claim 63 wherein z is 2 or 3.

66.(Original) The compound of claim 65 wherein R₅₂ and R₅₃ are each independently H, C₁₋₆ alkyl, alkoxy optionally substituted with dialkylamino, or alkylamino.

67.(Original) The compound of claim 66 wherein R₅₂ is H.

68.(Original) The compound of claim 67 wherein R₅₃ is methyl, methoxy, alkoxy optionally substituted with dialkylamino, or alkylamino.

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69.(Original) The compound of claim 67 wherein R_{53} is OCH_3 or $O(CH_2)_3N(CH_3)_2$.

70.(Original) The compound of claim 66 wherein R_{53} is H.

71.(Original) The compound of claim 70 wherein R_{52} is methyl, methoxy, alkoxy optionally substituted with dialkylamino, or alkylamino.

72.(Original) The compound of claim 70 wherein R_{52} is OCH_3 or $O(CH_2)_3N(CH_3)_2$.

73-106.(Canceled)